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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/938,563	08/27/2001	Yun Bok Lee	8733.496.00	1586

30827 7590 09/25/2003

MCKENNA LONG & ALDRIDGE LLP
1900 K STREET, NW
WASHINGTON, DC 20006

EXAMINER

RICHARDS, N DREW

ART UNIT	PAPER NUMBER
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2815

DATE MAILED: 09/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/938,563

Applicant(s)

LEE ET AL.

Examiner

N. Drew Richards

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 August 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 9-20 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of claims 1-8 drawn towards Species I in Paper No. 6 is acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Hidehira et al. (U.S. Patent No. 6,618,109 B2).

Hidehira et al. disclose an in-plane switching mode liquid crystal display device in figure 1-19. Hidehira et al. disclose in figure 7A and 7B:

first and second substrate (first substrate 1 and second substrate 11 as seen in figure 7B);

common electrodes arranged on one of the first and second substrates in a substantially zigzag pattern wherein each common electrode has at least one bent portion (common electrodes 3 arranged as seen in figure 7A, formed on the first substrate as seen in figure 7B);

pixel electrodes arranged with a substantially zigzag pattern corresponding to the common electrodes roughly in parallel with the common electrodes (pixel electrodes 7 arranged as seen in figure 7A);

common electrode frames extending from the bent portion of at least one of the common electrodes (common electrode frames 9b arranged as seen in figure 7A);

and a liquid crystal between the first and second substrates (liquid crystal 17 arranged as seen in figure 7B).

With regard to claim 2, Hidehira et al. also discloses pixel electrode frames extending from a bent portion of at least one of the pixel electrodes (pixel electrode frames 9b arranged as seen in figure 7A).

With regard to claim 3, respective common electrode frames are located between two neighboring pixel electrode frames (as seen in figure 7A).

With regard to claim 4, respective pixel electrode frames are located between two neighboring common electrode frames (as seen in figure 7A).

With regard to claim 5, respective common electrode frames and the pixel electrode frames are arranged in parallel with one another (as seen in figure 7A).

With regard to claim 6, the pixel electrode frames and the common electrode frames are alternately arranged in one direction (as seen in figure 7A).

With regard to claim 7, the common electrode frames are essentially located in the bent portion having a smaller angle than 180 degrees (as seen in figure 7A).

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With regard to claim 8, the pixel electrode frames are essentially located in the bent portion having an angle smaller than 180 degrees (as seen in figure 7A).


Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Fukumoto et al. (U.S. Patent No. 6583837 B1), Yamakita et al. (U.S. Patent No. 6525798 B1), Tsuda et al. (U.S. Patent No. 6525797 B2), Lee (U.S. Patent No. 6459465 B1), Suzuki et al. (U.S. Patent No. 6452657 B1), Nishida et al. (U.S. Pub. No. 2002/0159016 A1).


Any inquiry concerning this communication or earlier communications from the examiner should be directed to N. Drew Richards whose telephone number is (703) 306-5946. The examiner can normally be reached on M-F 8:00-5:30; Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on (703) 308-1690. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



NDR



GEORGE ECKERT
PRIMARY EXAMINER